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TRANSITION METALLIC COMPOUND, CATALYST COMPONENT FOR POLYMERIZING OLEFIN AND PRODUCTION OF OLEFINIC POLYMER

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Abstract:

PROBLEM TO BE SOLVED: To obtain a readily producible and isolable nonmetallocene transition metallic compound, capable of manifesting a high polymerizing activity in polymerizing an olefin and useful for efficiently producing an olefinic homopolymer or copolymer. **SOLUTION:** This transition metallic compound is represented by formula I [M is a group IV transition metallic atom of the periodic table; X and Y are each H, a halogen, a 1-24C (substituted)alkoxy, etc., or may be bound to form ring; R1 and R2 are each a 1-24C (substituted)alkyl or the like; J is carbon or silicon; R3 and R4 are each H, a 1-24C (substituted) alkyl or the like, or may be bound to form a ring] or formula II. For example, (N,N'-diisopropyl-1,3- propanediamino)titanium dichloride is cited as the compound represented by formula I. The compound represented by formula I or II is obtained by reacting, e.g. a diamine compound represented by formula III [R8 and R9 are each H or a 1-24C (substituted)silyl] with a transition metallic compound represented by the formula MZ1Z2Z3Z4 [Z1 to Z4 are each H, a halogen, a 1-24C (substituted) alkyl or the like].

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